

Notice of Allowability

Application No.

10/783,643

Examiner

Sana Al-Hashemi

Applicant(s)

GRONDIN ET AL.

Art Unit

2164

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 11/22/06.
2. ☒ The allowed claim(s) is/are 1-4,7,8,11-14,17,18 and 21-32.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 3/06/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Sana Al-Hashemi
Sana Al-Hashemi

DETAILED ACTION

1. This action is issued in response to applicant's amendment filed 2/12/07.
2. Claims 1-4, 7-8, 11-14, 17-18, and 21-32, were elected. No claims were added. None were canceled.
3. Claims 1-4, 7-8, 11-14, 17-18, and 21-32 are allowed.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Josephine E. Change on February 12, 2007.

Please cancel the following claims:

5-6, 9-10, 15-16, 19-20

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: the 37 CFR 1.131 was persuasive. Claims 1-4, 7-8, 11-14, 17-18, and 21-32 are allowed.

Regarding independent claims 1, 7, 11, 17, 21, 24, 27, and 30, the prior art of record fails to disclose or suggest the claimed provision of: generating a domain structure and tokenized data from an archive data set, the domain structure including tokens corresponding to unique values in the archive data set and the tokenized data including token columns corresponding to value columns in the archive data set; determining archive metadata from the domain structure and the tokenized data; dividing the tokenized data into one or more token column segments; determining token column segment metadata from the one or more token column segments; creating one or more compressed token column segments from the token column segments;

creating one or more compacted files from the one or more compressed token column segments and the token column segment metadata; and storing the one or more compacted files in a file system coupled to the data processing system, in conjunction with remaining claim provisions, is not taught or suggested, or rendered obvious over the prior art of record or that encountered in searching the invention

The dependent claims 2-4, 8, 12-14, 18, 22-23, 25-26, 31-32, being further limiting to the independent claims, definite and enabled by the Specification are also allowed.

Comments

The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. In no case may an applicant reply outside the SIX (6) MONTH statutory period or obtain an extension for more than FIVE (5) MONTHS beyond the date for reply set forth in an Office action. A fully responsive reply must be timely filed to avoid abandonment of this application.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

As allowable subject matter has been indicated, Applicant's response must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP section 707.07(a).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Other Prior Art Made of Record

1- Sinclair et al. (US Patent No. 6,772,163) discloses a reduced memory row hash match scan join for a partitioned database system

Art Unit: 2164

2- Knutson et al. (US Patent No. 5,870,746) discloses a system and method for segmenting a database based upon data attributes.

3- Hickman et al. (US Patent No. 6,523,036) discloses Internet database system

4- French et al. (US Patent No. 5,794,229) discloses a database system with methodology for storing a database table by vertically partitioning all columns of the table

5- Levine et al. (US Patent No. 6,073,129) discloses a method and apparatus for improving the performance of a database management system through a central cache mechanism

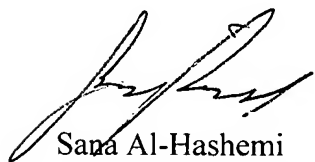
6- Christy (US Patent No. 6,366,911) discloses partitioning of sorted lists (containing duplicate entries) for multiprocessors sort and merge

Points of Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sana Al-Hashemi whose telephone number is (571) 272-4013. The examiner can normally be reached on 8Am-4:30Pm.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Sana Al-Hashemi
Primary Patent Examiner
Technology Center 2100
February 11, 2007